

# Justin Tsai

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## WORK EXPERIENCE

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### Cal Poly Pomona Virtual Reality Lab

**Aug 2018 - Current**

*Software Engineer (June 2019 - Current)*

- Working closely with clients and team to develop VR experiences and ensure quality deliverables.

*Administrator (Aug 2018 - May 2019)*

- Led and managed groups of students to develop VR/AR projects for presentation to industry sponsors.
- Mentored students and hosted workshops and code reviews to teach basic Unity development.
- Redesigned the organization's web page while improving readability and responsiveness.

## EDUCATION

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### California State Polytechnic University, Pomona

**May 2019**

*Bachelor of Science, Computer Science*

GPA: 3.5, Cum Laude

## PROJECTS

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### Block ARhythm

**July 2019**

- Designed and developed a rhythm game that can be played on PC and mobile. The player controls barriers that are used to deflect notes from hitting the center of the play area.
- Implemented controls, game mechanics, note syncing, and AR compatibility using Vuforia.

### Spellbreaker

**May - June 2019**

- Created a single player VR hack and slash game. The player has to cut through a flurry of magic projectiles aimed at them using their swords.
- Implemented game mechanics, audio, particle systems, and player controls using SteamVR.

### VR Wildfire

**Sept 2018**

- Enhanced and debugged a VR research project that simulates a scenario in which the user is caught in the middle of a wildfire to see what courses of action the user takes.
- Fixed errors by analyzing and rewriting existing code from scripts.

### VR Combination and Permutation

**Feb - May 2018**

- Collaborated in a team of three to develop a VR research project that tests the player's understanding of math concepts in an escape room environment.
- Implemented environment interactions, audio, and player controls using VRTK.

## SKILLS

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- **Languages:** Java (proficient), C# (proficient), HTML (proficient), CSS (proficient), Javascript (familiar), Python (familiar), C++ (familiar), SQL (familiar)
- **Tools:** Unity, SteamVR, VRTK, MRTK, Vuforia, Visual Studio, Eclipse, NetBeans, Git, Microsoft Office